1	GCACGAGGAACAGACACTTTCTCATGTCCAGGGTCAGATTACAAGAGCACTCAAGACTT	60
61	TACTGACGAAAACTCAGGAAATCCTCTATCACAAAGAGGTTTGGCAACTAAACTAAGACA	120
121	TTAAAAGGAAAATACCAGATGCCACTCTGCAGGCTGCAATAACTACTACTTACT	180
181 1	ATTCAAACCCTCCAGAATCAACAGTTATCAGGTAACCAACAAGAAATGCAAGCCGTCGAC M Q A V D	240 5
241 6	AATCTCACCTCTGCGCCTGGGAACACCAGTCTGTGCACCAGAGACTACAAAATCACCCAG N L T S A P G N T S L C T R D Y K I T Q	300 25
301 26	GTCCTCTTCCCACTGCTCTACACTGTCCTGTTTTTTGTTGGACTTATCACAAATGGCCTGVLFPLLYTVLFFVGLITNGL	360 45
361 46	GCGATGAGGATTTTCTTTCAAATCCGGAGTAAATCAAACTTTATTATTTTTCTTAAGAAC A M R I F F Q I R S K S N F I I F L K N	420 65
421 66	ACAGTCATTTCTGATCTTCTCATGATTCTGACTTTTCCATTCAAAATTCTTAGTGATGCC T V I S D L L M I L T F P F K I L S D A	480 85
481 86	AAACTGGGAACAGGACCACTGAGAACTTTTGTGTGTCAAGTTACCTCCGTCATATTTTAT K L G T G P L R T F V C Q V T S V I F Y	540 105
541 106	TTCACAATGTATATCAGTATTTCATTCCTGGGACTGATAACTATCGATCG	600 125
601 126	ACCACCAGGCCATTTAAAACATCCAACCCCAAAAATCTCTTGGGGGCTAAGATTCTCTCTT T R P F K T S N P K N L L G A K I L S	660 145
661 146	GTTGTCATCTGGGCATTCATGTTCTTACTCTCTTtGCCTAACATGATTCTGACCAACAGg	720 165
	CAGCCGAGAGACAAGAATGTGaAGAAaTGCTCTTTCCTTAAATCAGAGTTCGGTCTAGTC QPRDKNVKKCSFLKSEFGLV	780 185
781 186	TGGCATGAAATAGTAAATTACATCTGTCAAGTCATTTTCTGGATTAATTTCTTAATTGTT W H E I V N Y I C Q V I F W I N F L I V	840 205

FIG.1A

841	ATTGTATGTTATACACTCATTACAAAAGAACTGTACCGGTCATACGTAAGAACGAGGGGT	900
206	IVCYTLITKELYRSYVRTRG	225
901 226	GTAGGTAAAGTCCCCAGGAAAAAGGTGAACGTCAAAGTTTTCATTATCATTGCTGTATTC V G K V P R K K V N V K V F I I I A V F	960 2 4 5
		1020
961 246	F I C F V P F H F A R I P Y T L S Q T R	265
1021	GATGTCTTTGACTGCACtGcTGAAAATACTCTGTTCTATGTGAAAGAGAGCACTCTGTGG	1080
266	DVFDCTAENTLFYVKESTLW	285
1081 286	TTAACTTCCTTAAATGCATGCCTGGATCCGTTCATCTATTTTTTCCTTTGCAAGTCCTTC L T S L N A C L D P F I Y F F L C K S F	1140 305
1141	AGAAATTCCTTGATAAGTATGCTGAAGTGCCCCAATTCTGCAACATCTCTGTCCCAGGAC	1200
306	RNSLISMLKCPNSATSLSQD	325
1201 326	AATAGGAAAAAAGAACAGGATGGTGGTGAcCCAAATGAAGAGACTCCAATGTAAACAAAT N R K K E Q D G G D P N E E T P M *	1260 343
1261	TAACTAAGGAAATATTTCAATCTCTTTGTGTTCAGAACTCGTTAAAGCAAAGCGCTAAGT	1320
1321	AAAAATATTAACTGACGAAGAAGCAACTAAGTTAATAATAATGACTCTAAAGAAACAGAA	1380
1381	GATTACAAAAGCAATTTTCATTTACCTTTCCAGTATGAAAAGCTATCTTAAAATATAGAA	1440
1441	AACTAATCTAAACTGTAGCTGTATTAGCAGCAAAACAAAC	1500
1501	CATGCAAAACTACACAGAATTCATGTTTTGgCAGAGTTTTGGCAAAATGAGTAATCATAT	1560
1561	AATATTTACTGTAATTTTTAAAATACATTATCGTTCACAATTTTATTTTTTCATAATCAA	1620
1621	CTAAGGAAGAACGATCAATTGGATATAATCTTCTTACCAAAAATGATAGTTAAAATGTAT	1680
1681	ATATATCCTAGTCCCCTAACCaAATCCTGACCTATTGGGATACTTATAAAAATTTAAGTA	1740
1741	AGTGGGATACACAAAGAATAATAACTATTAACTTTTCATTATTAGCcAAAAACCTAAGGG	1800

FIG.1B

¥,-.

1801	ATTTAAACTAATTGAAaCTGTATTTGATTGGACTTAATTTTTTATGTTTATTTAGAAGAT	1860
1861	AAAGATTTAAGAAGACCTTTACAATAAAGAGAAGAAATATCGAAGTCATTAAAATAAGGA	1920
1921	GACTTACTTTTATGACATTCTAATACTAAAAAATATAGAAATATTTCCTTAATTCTAGAG	1980
1981	AAACTAGTTTTACTAATTTTTTACAACTTCAATAATACCATCACTGACACTTACCTTTAT	2040
2041	TAATTAGCTTCTAGAAAATAGCTGCTAATTAGGTTAATGAACATTTTACCTTAGTGAAAA	2100
2101	AAAaTTAATTAAATATGATTACAAAGTTGCACAGCATAACTACTGAGAGGAAAGTGATTG	2160
2161	ATCTGTTTGTAATTACTTGTTTGTATTGGTGTGTATAAAATACAAATTTACATTAAACTC	2220
2221	TAAAtcattaaaAAAAAAAAAAAAAAAAAAAAAAAAAAAA	

FIG.1C

1	MQAVDNLTSAPGNTSLCTRDYKITQVLFPLLYTVLFFVGLITNGLA	46
3	: .: : .:. .::: .:: :: :. IQMANNFTPPSATPQGNDCDLYAHHSTARIVMPLHYSLVFIIGLVGNLLA	52
47	MRIFFQIRSKSN.FIIFLKNTVISDLLMILTFPFKILSDAKLGTGPLRTF:::. . . .	95
53	LVVIVQNRKKINSTTLYSTNLVISDILFTTALPTRIAYYAMGFDWRIGDA	102
96	VCQVTSVIFYFTMYISISFLGLITIDRYQKTTRPFKTSNPKNLLGAKILS	145
103	: .: .:: :. ::. :. :. :: :: .: :: LCRITALVFYINTYAGVNFMTCLSIDRFIAVVHPLRYNKIKRIEHAKGVC	152
146	VVIWAFMFLLSLPNMILTNRQPRDKNVKKCSFLKSEFGLVWHEIVNYI	193
153	::: :: . : :::: : . ::: IFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACF	202
194	CQVIFWINFLIVIVCYTLITKELYRSYVRTRGVGKVPRKKVNVKVFII	241
203	:: :: ::: . : : : : . :: IGYVLPLIIILICYSQICCKLFRTAKQNPLTEKSGVNKKALNTIILII	250
242	IAVFFICFVPFHFARIPYTLSQTRDVFDCTAENTLFYVKESTLWLTSL	289
251	: .: . : . :.:: : V.VFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNF	299
290	NACLDPFIYFFLCKSFRNSLISMLKCPNSATSLSQDNRKKEQDGGDPNEE	339
300	. : ::::. . . : . :: NCCMDPFIYFFACKGYKRKVMRMLKRQVS.VSISSAVKSAPEENSREMTE	348
	TPM 342	
	. TOM 351	

FIG.2

1	GGC	ACG	AGC	CCA	CCC.	TGC	GTC	GGG	CCT	CAG	TCA	GCC	CCC	GGG	GGA	GGC(CAT	GAA	CGC	CAC	60
1	uuo	100															М		Α		4
61	GGG	GAC	CCC	GGT	GGC	CCC	CGA	GTC	CTG	CCA	ACA	GCT	GGC	GGC	CGG	CGG	GCA	CAG	CCG	GCT	120
5		Τ				P													. R		24
121	CAT	TGT	тст	GCA	СТА	CAA	CCA	СТС	GGG	CCG	GCT	GGC	CGG	GCG	CGG	GGG	GCC	GGA	GGA	TGG	180
25						N														G	44
181	CGG	ССТ	GGG	GGC	ССТ	GCG	GGG	GCT	GTC	GGT	GGC	CGC	CAG	CTG	CCT	GGT	GGT	GCT	GGA	GAA	240
45	G	L	G	Α	L	R	G	L	S	٧	Α	A	S	С	L	٧	٧	L	Ε	N	64
241	СТТ	GCT	GGT	GCT	GGC	GGC	CAT	CAC	CAG	CCA	CAT	GCG	GTC	GCA	ACG	CTG	GGT	CTA	CTA	TTG	300
65	L	L	٧	L	Α	Α	I	T	S	Н	М	R	S	Q	R	W	٧	Y	Υ	С	84
301	ССТ	GGT	GAA	CAT	TAC	GAT	GAG	TGA	CCT	GCT	CAC	GGG	CGC	GGC	CTA	CCT	GGC	CAA	CGT	GCT	360
85	L	٧	N	Ι	T	M	S	D	L	L	T	G	Α	Α	Y	L.	Α	N	٧	L	104
361	GCT	GTC	GGG	GGC	CCG	CAC	стт	CCG	TCT	GGC	GCC	CGC	CCC	GTG	GTT	CCT	ACG	GA/	AGGG	CCT	420
105	L	S	G	Α	R	T	F	R	· L	Α	Р	Α	Q	W	F	L	R	K	G.	L	124
421	GCT	гстт	CAC	CGC	CCT	rggc	CGC	СТС	CAC	CT	CA(CCT	rgc i	ГСТТ	CAC	TGC	AG(GGT	rgce	CTT	480
125	L	F	T	Α	L	Α.	A	S	T	F	S	L	L	F.	T	Α	G	L	R	F	144
481	TGO	CCAC	CAC	r GG T	rgc(GGC	CGGT	rgg(CCG/	AGA(GCG(GGG(CCAC	CCA	AGA(CAG	ACC(GCG	TCT#	ACGG	540
145	Α	Т	M	٧	R	P	٧	Α	Ε	S	G	A	T	K	T.	S	R	٧	Y	G	164
541	СТ	TCA	TCG	GCC	ГСТО	GCT(GGC	TGC ⁻	TGG	CCG	CGC	TGC ⁻	TGG	GGA"	TGC ⁻	rgc(TT	TGC	TGG	CTG	600
165	F					W												L	_	W	184
601	GA	ACT	GCC ⁻	TGT	GCG	ССТ	ΙΤG	ACC	GCT	GCT	CCA	GCC	ПС	TGC	CCC ⁻	rct/	ACT	CCA	AGC(GCTA	660
185		С	L	С	Α	F	D	R	С	S	S	L	L	P	L	Y	S	K	R	Υ	204
661	CA	TCC	тст	тст	GCC	TGG	TGA	тст	TCG	CCG	GCG	TCC	TGG	CCA	CCA	TCA	TGG	GCC	TCT	ATGG	720
205	I	L	F	С	L	٧	Ι	F	Α	G	٧	L	A	T	Ι	M	G	L	Υ	G	224
721	GG	CCA	тст	TCC	GCC	TGG	TGC	AGG	CCA	GCG	GGC	AGA	AGG	CCC	CAC	GCC	CAG	CGG	CCC	GCCG	780
225																					24

FIG.3A

781	CAAGGCCCGCCGCCTGCTGAAGACGGTGCTGATGATCCTGCTGGCCTTCTTGGTGTGCTG	840
245		264
841	dddACCAC (C) CdddC dd adda a carbin a ab a a a a a a a a a a a a a a a a a	900
265	G P L F G L L L A D V F G S N L W A Q E	284
901	GTACCTGCGGGGCATGGACTGGATCCTGGCCCTGGCCGTCCTCAACTCGGCGGTCAACCC	960
285		304
0.61	CATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGTGCTCAGCTTCCTCTGCTG	1020
961 305		324
303		
1021	Cada la la companya de la companya d	1080 344
325	GCLRLGMRGPGDCLARAVEA	344
1081	TCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTC	1140
345	H S G A S T T D S S L R P R D S F R G S	364
1141	CCGCTCGCTCAGCTTTCGGATGCGGGAGCCCCTGTCCAGCATCTCCAGCGTGCGGAGCAT	1200
365	R S L S F R M R E P L S S I S S V R S I	384
		1260
1201 385	CTGAAGTTGCAGTCTTGCGTGTGGATGGTGCAACCACCGGGTGCGTGC	385
303		
1261	CCTGGGGTACAGGAAGCTGTGCACGCAACCTCGCCCTGTATGGGGAGCAGGGAACGGG	1320
1321	ACAGGCCCCCATGGACTTGCCCGGTGGCCTCTCGGGGCTTCTGACGCCATATGGACTTGC	1380
1321		
1381	CCATTGCCTATGGCTCACCCTGGACAAGGAGGCAACCACCCCACCTCCCCGTAGGAGCAG	1440
· 1///1	AGAGCACCCTGGTGTGGGGCGAGTGGGTTCCCCACAACCCCGCTTCTGTGTGATTCTGG	1500
1441		
1501	GGAAGTCCCGGCCCCTCTCTGGGCCTCAGTAGGGCTCCCAGGCTGCAAGGGGTGGACTGT	1560
1561	GGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTAAAAAAAA	1620
1301	QQQATQOATQOO FQQOFFTOATTA GALLIS SALLIS ALLIS AL	
1621	ΔΔΔΔΔΔΔΔΔΔΔΔΔΔΔΔ 1637	

FIG.3B

1	MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALR	50
1	.: :. : :: : : ::. : :: . MGPTSVPLVKAHRSSVSDYVNYDIIVRHYNYTGKLNISADKEN.SIKLTS	49
51	GLSVAASCLVVLENLLVLAAITSHMRSQRWVYYCLVNITMSDLLTGAAYL .: : : ::: :: . : : : :. :.: . .	100
50	VVFILICCFIILENIFVLLTIWKTKKFHRPMYYFIGNLALSDLLAGVAYT	99
101	ANVLLSGARTFRLAPAQWFLRKGLLFTALAASTFSLLFTAGLRFATMVRP	150
100	ANLLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAIERYITMLKM	149
151	VAESGATKTSRVYGFIGLCWLLAALLGMLPLLGWNCLCAFDRCSSLLPLY :: : : : : : : : : : : : : : : : :	200
150	KLHNGS.NNFRLFLLISACWVISLILGGLPIMGWNCISALSSCSTVLPLY	198
201	SKRYILFCLVIFAGVLATIMGLYGAIFRLVQASGQKAPRPAARRKARR	248
199	HKHYILFCTTVFTLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSS	248
249	LLKTVLMILLAFLVCWGPLFGLLLADVFGSNLWAQEYLRGMDWILA	294
249	ENVALLKTVIIVLSVFIACWAPLFILLLLDV.GCKVKTCDILFRAEYFLV	297
295	LAVLNSAVNPIIYSFRSREVCRAVLSFLCCGCLRLGMRGPGDCLARAVEA	344
298	LAVLNSGTNPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIA	345
345	HSGASTTDSSLRPRDSFRGSRSLSFRMREPLSSIS 379	
346	GMEFSRSKSDNSSHPQKDEGDNPETIMSSGNVNSSS 381	

FIG.4